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PATENT  
Docket No. 28810/04002

UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of Breslin, et al.

Examiner: Unknown

U.S. Serial No.: 10/625,267

Art Unit:

Filed: July 23, 2003

For: **IMPROVED CERAMIC/METAL MATERIAL AND  
METHOD FOR MAKING SAME**

Our File: 28810/04002

Commissioner for Patents  
Mail Stop DD  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed except for: (a) pending applications or (b) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120:

Serial No.: \_\_\_\_\_  
Filing Date: \_\_\_\_\_

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- (a) Copy of English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- (b) Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents". (See attached International Search Report).

3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed:

- (a) Within 3 months of the filing date or date of entry into the National Stage.

(b) Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 03-0172 for consideration of this Statement.

(c) After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.

(1) The required certification is given below, or

(2) Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 03-0172.

(d) After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.

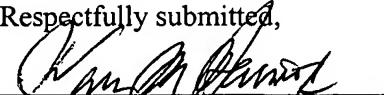
(1) Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 03-0172.

4. Certification (if applicable)

(a) The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.

(b) The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 03-0172.

Respectfully submitted,  
  
\_\_\_\_\_  
Warren M. Haines II  
Attorney for Applicants  
Reg. No. 40,632

**Certificate of Mailing**

I hereby certify that this *SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT* is being deposited on this, the 21 day of May, 2004, with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop DD, P.O. Box 1450, Alexandra, VA 22313-1450.

Joyce FORD  
Print Name Of Person Signing This Certificate

  
\_\_\_\_\_  
SIGNATURE

Subst. Form PTO-1449  APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  JUN 01 2004 PATENT & TRADEMARK OFFICE	Atty. Docket No.: 28810/04002  Applicant: Breslin et al.  Filing Date: July 23, 2003	Serial No 10/625,267  Group:
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## U.S. PATENT DOCUMENTS

Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
	AA	4,610,726	Sept. 9, 1986	King			June 29, 1984
	AB	4,851,375	July 25, 1989	Newkirk et al.			Jan. 17, 1986
	AC	4,940,679	July 10, 1990	Claar et al.			Dec. 23, 1987
	AD	5,214,011	May 25, 1993	Breslin			Aug. 30, 1991
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subcl.	Translation?
	AM						
	AN						

## OTHER PRIOR ART

AO	Murthy, V. S. R. et al. "Microstructure and mechanical properties of SiC—Al—Al <sub>2</sub> O <sub>3</sub> composites prepared by directed melt infiltration" British Ceramic Transactions, 1996, Inst. Mater, UK; vol. 95, no. 4, pgs 173-176.
AP	Jayaram V., et al., "Infiltration of Al203 - Al composites into coated silicon carbide," Proceedings of the 1995 Conference on Inorganic Matrix Composites, Bangalore, India, March 8-11, 1995, pages 193-206.
AQ	Dhandapani, S.P. et al. "Growth and Microstructure of Al <sub>2</sub> O <sub>3</sub> —SiC—Si(Al) Composites Prepared by Reactive Infiltration of Silicon Carbide Preforms" ACTA Metallurgica et Materialia, March 1994, USA, vol. 42, no. 3, pages 649-656.
AR	Cui Yan et al. "Investigation on the microstructure of SiC <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> -Al composites synthesized by oxidative infiltration of Al melt" Hangkong Cailiao Xuebao; Hangkong Cailao Xuebao/Journal of Aeronautical Materials December 2001, vol. 21, no. 4 December 2001 (2001-12), pages 23-27.
AS	International Search Report for PCT/US03/22947

Examiner:	Date Considered:
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.